



500T
5218 / 7218

The next generation of film is here.

After a century of R&D, we're still innovating. KODAK VISION2 500T Color Negative Film 5218 / 7218 is the start of a new family of films for a new era of filmmaking. An era that demands perfection, but with more efficiency from capture to post. With proprietary new technology for superior image structure; more highlight and shadow detail; improved color and skin-tone reproduction; clean telecine transfers; and seamless special effects. KODAK VISION2 Film products offer the lowest grain available for clean, crisp images; improved neutral tone scale; and more flexibility in both film and digital postproduction. Yes, it takes film to a whole new level. And after all these years, this is just the beginning.

KODAK VISION2 500T **Color Negative Film** **5218 / 7218**

www.kodak.com/go/motion





Original Negative

EXPOSURE DATA

Lens: 32 mm ZEISS Ultra Prime
Lens

Filter: None

Aperture: T 2.8

Incident Light Levels

(Tungsten 2950K):

Key = T 2.8 (20 fc)

Fill = T 1.3 (4 fc)

Backlight = T 5.0 (64 fc)

Stop notations listed on the photo are reflected-light readings.

Note: There is a small amount of atmospheric smoke in the scene.

1 -4 Stops

2 -3 Stops

3 -1.3 Stops

4 Normal

5 +1.4 Stops

6 +3.5 Stops

7 +4.2 Stops

BASE

Acetate safety base with rem-jet backing.

DARKROOM RECOMMENDATIONS

Do not use a safelight. Handle unprocessed film in total darkness.

PROCESSING

ECN-2

STORAGE

Store unexposed film at 13°C (55°F) or lower. For storage of unexposed film longer than 6 months, store at -18°C (0°F). Process film promptly.

EXPOSURE INDEX

Tungsten (3200 K)—500; Daylight—320 (with KODAK WRATTEN Gelatin Filter No. 85)

LABORATORY AIM DENSITY

Time negative originals relative to Laboratory Aim Density (LAD)
Control Film supplied by Eastman Kodak Company.

COLOR BALANCE

This film is balanced for exposure with tungsten illumination (3200 K). You can also expose it with tungsten lamps that have slightly higher or lower color temperatures (± 150 K) without correction filters, since final color balancing can be done in printing. For other light sources, use the correction filters in the table below.

POST-PRODUCTION INFORMATION

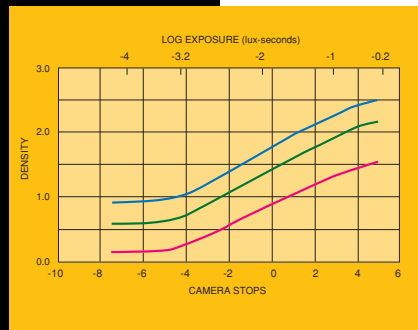
When you transfer this film directly to video, set up the telecine using negative Telecine Analysis Film (TAF).

| LIGHT SOURCE | KODAK FILTERS ON CAMERA* | EXPOSURE INDEX |
|---------------------------------|------------------------------|----------------|
| Tungsten (3000 K) | WRATTEN Gelatin No. 82B | 320 |
| Tungsten (3200 K) | None | 500 |
| Tungsten Photoflood (3400 K) | None | 500 |
| Daylight (5500 K) | WRATTEN Gelatin No. 85 | 320 |
| White-Flame Arcs | WRATTEN Gelatin No. 85B | 200 |
| Yellow-Flame Arcs | Color Compensating 20Y | 320 |
| OPTIMA 32 | None | 500 |
| VITALITE | WRATTEN Gelatin No. 85 | 320 |
| Fluorescent, Cool White† | WRATTEN Gelatin No. 85 +10M | 200 |
| Fluorescent, Deluxe Cool White† | WRATTEN Gelatin No. 85C +10R | 320 |
| Metal Halide H.M.I. | WRATTEN Gelatin No. 85 | 320 |

*These are approximate corrections only. Make final corrections during printing.
†These are starting-point recommendations for trial exposures. When you don't know the type of fluorescent lamp, use a KODAK Color Compensating Filter CC40R with an exposure index (EI) of 250.

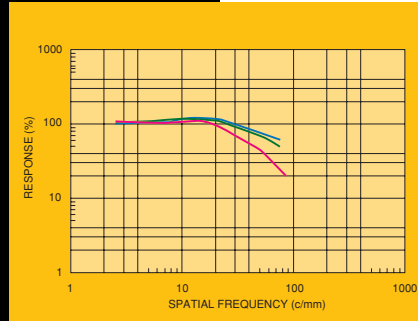
SENSITOMETRIC CURVES >

"0" on the x-axis represents normal exposure of an 18-percent gray card in the red, green, and blue layers of this film. A white card is 2 1/3 stops higher than normal exposure, and there are at least 2 1/2 stops above that for capturing specular highlight detail. A 3-percent black card is 2 2/3 stops below normal exposure. There are at least 2 1/2 stops of latitude below that for capturing shadow detail.



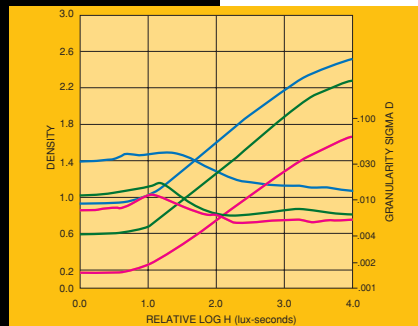
MODULATION-TRANSFER CURVES>

This graph shows a measure of the visual sharpness of this film. The x-axis, "Spatial Frequency," refers to the number of sine waves per millimetre that can be resolved. The y-axis, "Response," corresponds to film sharpness. The longer and flatter the line, the more sine waves per millimetre that can be resolved with a high degree of sharpness—and the sharper the film.



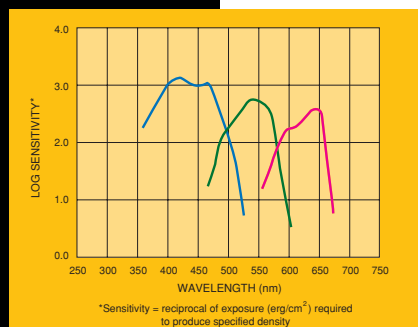
DIFFUSE RMS GRANULARITY CURVES >

To find the rms granularity value for a given density, find the density on the left vertical scale and follow horizontally to the sensitometric curve and then go vertically (up or down) to the granularity curve. At that point, follow horizontally to the Granularity Sigma D scale on the right. Read the number and multiply by 1000 for the rms value.



SPECTRAL-SENSITIVITY CURVES >

These curves depict the sensitivity of this film to the spectrum of light. They are useful for determining, modifying, and optimizing exposure for blue- and green-screen special-effects work.



RECIPROCITY

No filter corrections or exposure adjustments for exposure times from 1/1000 of a second to 1/10 second. In the 1-second range, increase exposure 2/3 stop and use a KODAK Color Compensating Filter CC 10R. In the 10-second range, increase exposure 1 stop and use a KODAK Color Compensating Filter CC 10R.

IDENTIFICATION

After processing, the Kodak internal product code symbol (EH), product code numbers 5218 (35 mm) or 7218 (16 mm), emulsion and roll number identification, and EASTMAN KEYCODE Numbers are visible along the length of the film.

GRAIN

The perception of graininess of any film depends on scene content, complexity, color, and density. In KODAK VISION2 500T Color Negative Film 5218 / 7218, the measured granularity is exceptionally low.

SHARPNESS

The perceived sharpness of any film depends on various components of the motion picture production system. Camera and projector lenses, film printers, and other factors play a role, but the specific sharpness of a film can be measured and charted in the Modulation Transfer Curve.

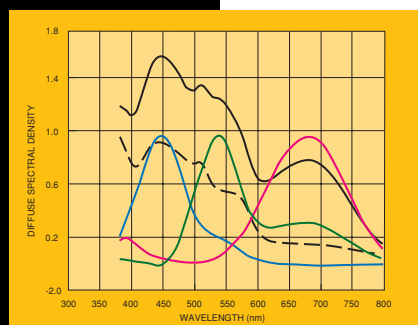
Spectral Sensitivity Curve Key

- Sensitivity of the yellow dye forming layer
- Sensitivity of the magenta dye forming layer
- Sensitivity of the cyan dye forming layer

SPECTRAL DYE-DENSITY CURVES >

These curves depict the spectral absorptions of the dyes formed when the film is processed. They are useful for adjusting or optimizing any device that scans or prints the film.

NOTE: Cyan, Magenta, and Yellow Dye Curves are peak-normalized.



Spectral Dye Density Curve Key

- Midscale Neutral
- Cyan Dye
- Magenta Dye
- Yellow Dye
- Minimum Density

Note: Sensitometric and Diffuse RMS Granularity curves are produced on different equipment. A slight variation in curve shape may be noticed.

KODAK VISION2 500T Color Negative Film 5218 / 7218

ADDITIONAL INFORMATION

To order the publications below, call 1-800-233-1650 between 8 a.m. and 7 p.m. Eastern Time.

Outside the United States, please contact your Kodak representative.

Visit us online at

www.kodak.com/go/motion

STANDARD PRODUCTS AVAILABLE*

| FORMAT AND SPECIFICATION NO. | LENGTH IN METRES (FEET) | CORE | DESCRIPTION | PERFORATION/PITCH METRIC (IMPERIAL) |
|------------------------------|-------------------------|---------------------|-------------------|-------------------------------------|
| 35 mm SP718 | 122 (400) | U | | BH-4740 (BH-1866) |
| 35 mm SP718 | 305 (1000) | U | | BH-4740 (BH-1866) |
| 16 mm SP449 | 30 (100) | R-90 100-ft. spool | | 2R-7605 (2R-2994) |
| 16 mm SP451 | 122 (400) | T | | 2R-7605 (2R-2994) |
| 16 mm SP578 | 122 (400) | S-153 400-ft. spool | | 2R-7605 (2R-2994) |
| 16 mm SP426N | 15 (50) | R-232 50-ft. spool | | 2R-7620 (2R-3000) |
| 16 mm SP445** | 61 (200) | A | Winding A | 1R-7620 (1R-3000) |
| 16 mm SP455 | 30 (100) | R-90 100-ft. spool | Winding B | 1R-7605 (1R-2994) |
| 16 mm SP457 | 122 (400) | T | Winding B | 1R-7605 (1R-2994) |
| 65 mm SP332 | 305 (1000) | P | Emulsion In | KS-4740 (KS-1866) |
| S8 mm SP464 | 15 (50) | | Super 8 Cartridge | |

*Availability may vary by location.

This product is also available as Finish-to-Order (FTO) in various other standard roll lengths and formats. Sold only in specific minimum order quantities or multiples of the minimum order quantities; non-returnable; US and Canada delivery time of 3 weeks from receipt of purchase order. Other restrictions may apply. Contact your local Kodak representative for additional information.

**Spec 445 can be used only in the AATON A-MINIMA Camera.

FILMS

Cinematographer's Field Guide

KODAK Publication No. H-2

PROCESSING

Manual for Processing KODAK Motion Picture Films, Process ECN-2 Specifications, Module 7

KODAK Publication No. H-24.07

IMAGE STRUCTURE

KODAK Motion Picture Film

KODAK Publication No. H-1

TRANSFER

KODAK Telecine Analysis Film User's Guide

KODAK Publication No. H-822

KODAK Telecine Exposure Calibration Film User's Guide

KODAK Publication No. H-807

LAD

LAD - Laboratory Aim Density

KODAK Publication No. H-61

STORAGE

KODAK Motion Picture Film

KODAK Publication No. H-1

[All of the above are also available at <http://www.kodak.com/go/motion>]

The Book of Film Care

KODAK Publication No. H-23

For direct ordering in the U.S. and Canada: 1-800-621-FILM (3456)

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Los Angeles, California
90038-1203

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service fee applies)

Notice: While the data presented are typical of production coatings, they do not represent standards that must be met by Kodak. Varying storage, exposure, and processing conditions will affect results. The company reserves the right to change and improve product characteristics at any time.

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